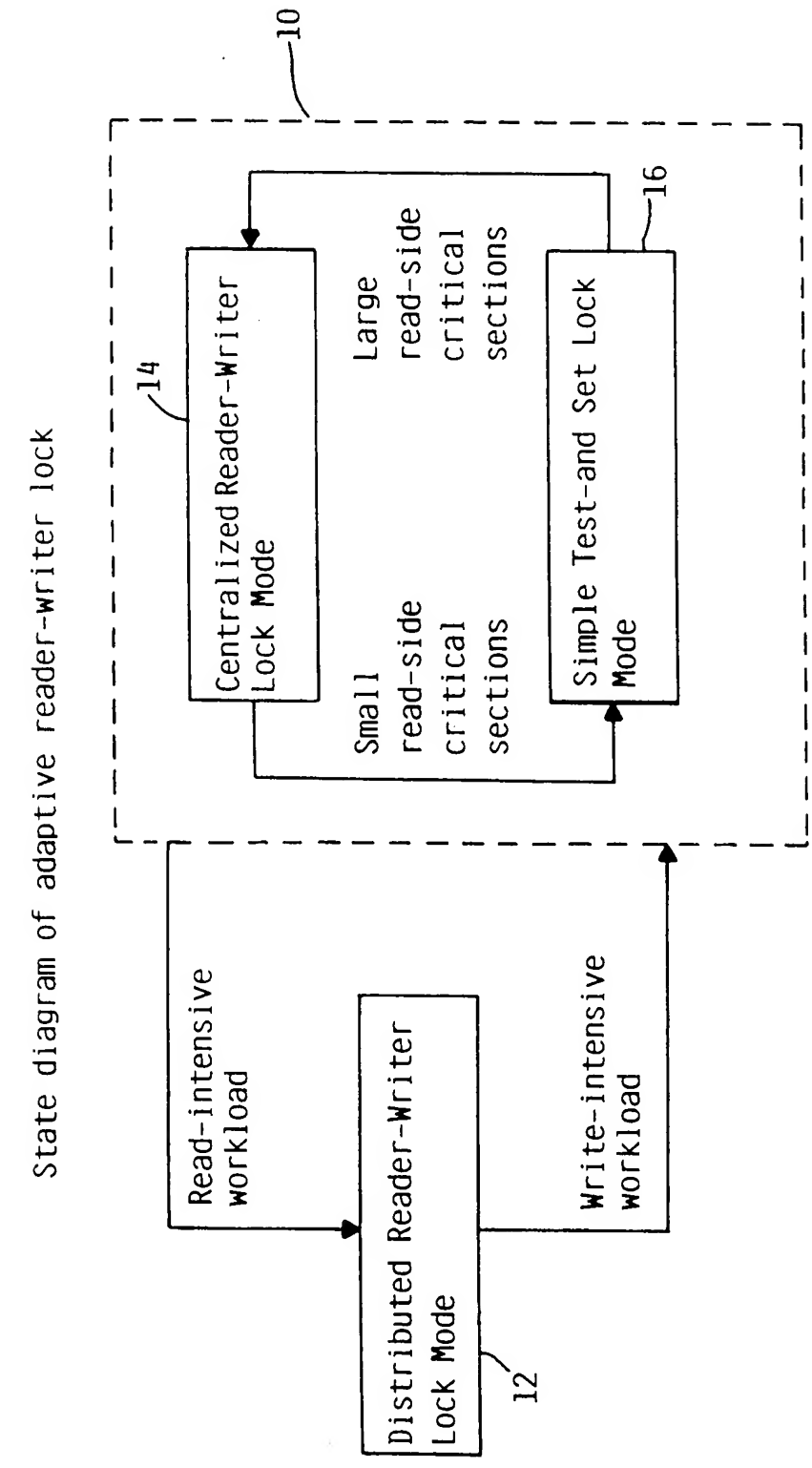
State diagram of adaptive reader-writer lock
10
14
Centralized Reader-Writer Lock Mode
Small read-side critical sections
Large read-side critical sections
16
Simple Test-and Set Lock Mode
Read-intensive workload
Distributed Reader-Writer Lock Mode
12
Write-intensive workload

FIG. 1

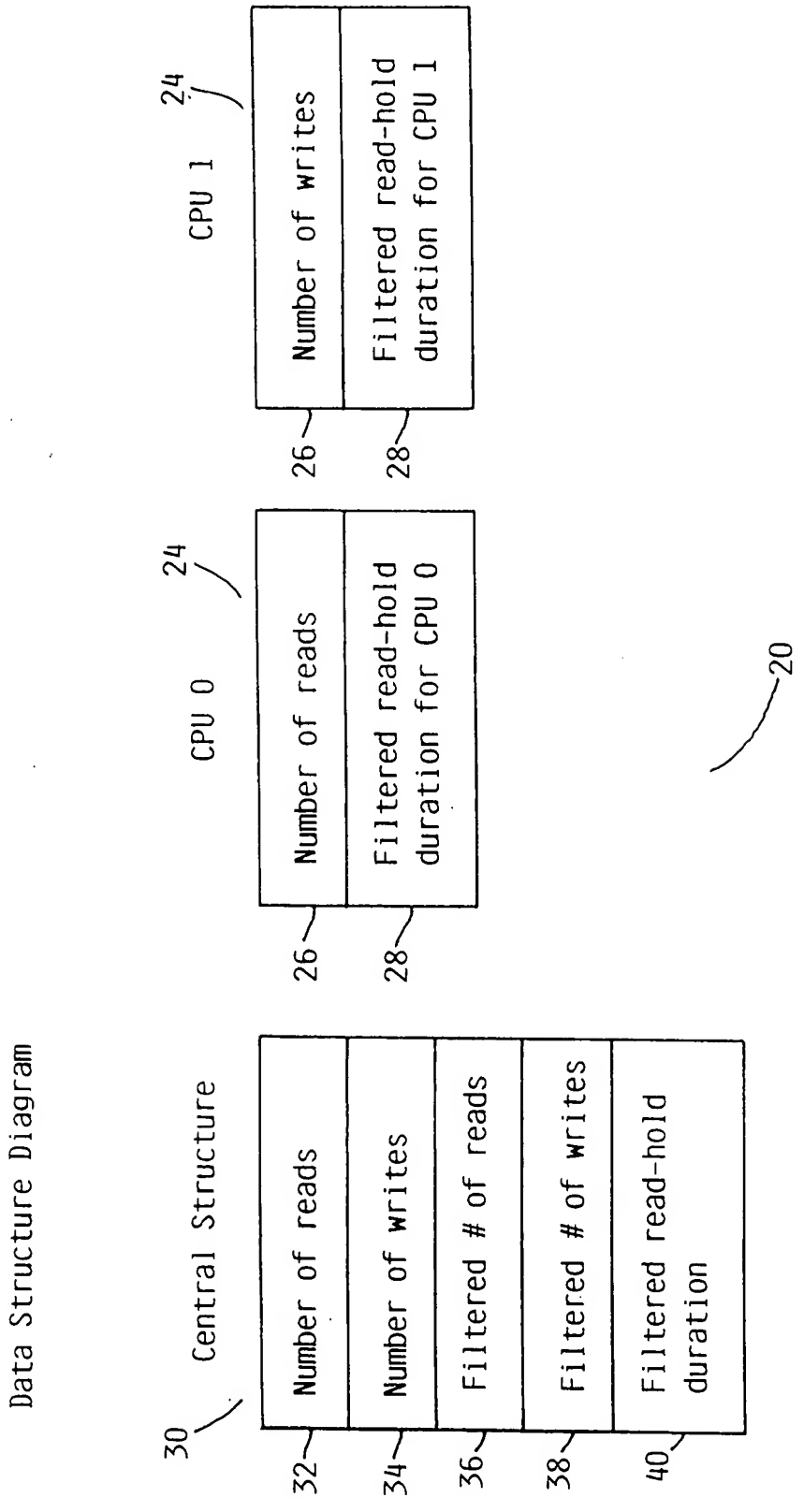
Data Structure Diagram
Central Structure
30
Number of reads
32
Number of writes
34
Filtered # of reads
36
Filtered # of writes
38
Filtered read-hold duration
40
CPU 0
24
Number of reads
26
Filtered read-hold duration for CPU 0
28
CPU 1
24
Number of writes
26
Filtered read-hold duration for CPU 1
28
20

FIG. 2